IMPORTANT INSTRUCTIONS - OPERATING MANUAL

APDQ Series — Air King Ventilation Products® — **Range Hood**

READ AND SAVE THESE INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

GENERAL SAFETY INFORMATION

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to person, including the following:

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:

a) Use this unit only in the manner intended by the manufacturer.If you have questions, contact the manufacturer.

b) Before servicing or cleaning the unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:

a) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-related construction.

b) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), and the local code authorities.

c) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

CAUTION: TO REDUCE THE RISK OF FIRE AND TO PROPERLY EXHAUST AIR, BE SURE TO DUCT AIR OUTSIDE - DO NOT VENT EXHAUST AIR INTO SPACES WITHIN WALLS OR CEILINGS OR INTO ATTICS, CRAWL SPACES, OR GARAGES.

d) Ducted fans must always be vented to the outdoors.

e) This unit must be grounded.

f) To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.

g) Read all instructions before installing or using range hood.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE SPEED CONTROL DEVICE.

WARNING: TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

a) Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.

b) Always turn hood ON when cooking at high heat or when flambéing food (ie. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).

c) Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan filter.

d) Use proper pan size. Always use cookware appropriate for the size of the surface element.

WARNING: TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:

a) SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.

b) NEVER PICK UP A FLAMING PAN - You may be burned.

c) DO NOT USE WATER, including wet dishcloths or towels - a violent steam explosion will result.

d) Use an extinguisher ONLY if:

I. You know you have a Class ABC extinguisher, and you already know how to operate it.

II. The fire is small and contained in the area where it started.

III. The fire department is being called.

IV. You can fight the fire with your back to an exit.

WARNING: TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

SAVE THESE INSTRUCTIONS

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INSTALLATION INSTRUCTIONS

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

SECTION 1

Preparing the Range Hood

1. Unpack hood from the carton and confirm that all pieces are present. In addition to the range hood you should have:
   - 2 - Aluminum Grease Filters
   - 1 - 3-1/4"x 10" Damper
   - 3 - Damper Mounting Screws
   - 4 - #8 Mounting Screws
   - 1 - Instruction/Safety Sheet

NOTE: Some hoods may be shipped with a protective plastic adhered to the range hood. It is recommended to leave this in place during installation to protect the hood from scratching. Remove when the installation is complete.

2. Lay the hood flat on a table so the underside is facing you. Use a piece of cardboard to avoid damaging the table or the hood.
3. Remove the following items from the hood and place in a safe place until needed **(Figure 1):**

   Grease filters: Pull on tabs to remove.

   Bottom cover: Remove the 4 screws holding it in place.

   Wire compartment cover: Remove the cover by unscrewing the 3/8" nut and squeezing the sides of the wire cover to disengage the tabs holding in place.

   Blower: Using a 3/8" nut driver or ratchet, remove the 4 nuts holding the blower in place.

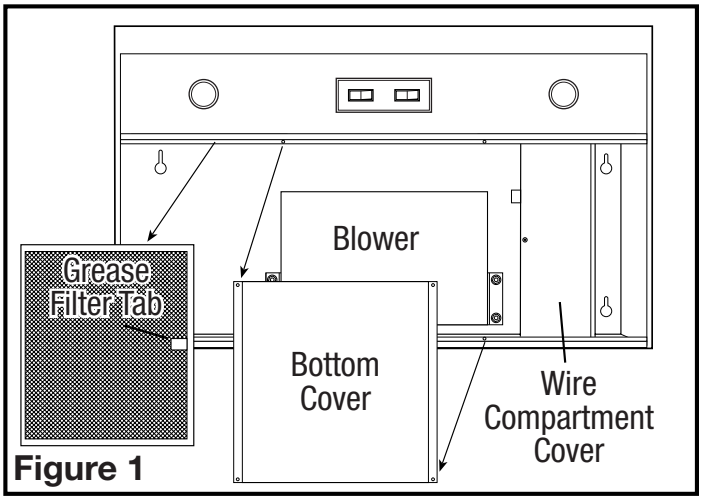

Figure 1

SECTION 2

Prepare the location for Hood Support

1. If the hood will be installed under cabinets that have a recessed bottom, it will be necessary to install wood mounting strips (not included) so the hood will mount properly **(Figure 2).**

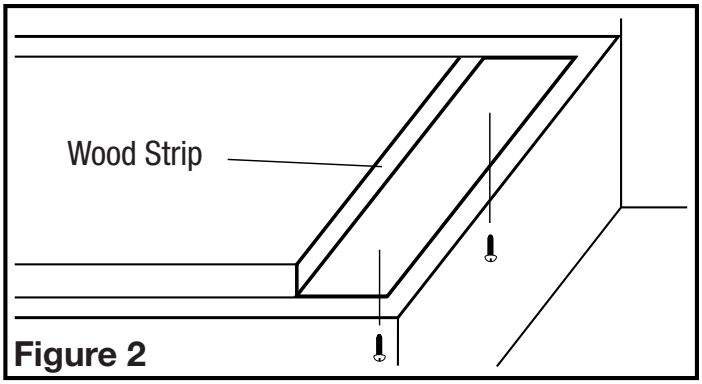

Figure 2

2. The thickness of the strips should be the same as the recess of the cabinet and they should be approximately 2" wide.
3. Install the strips using appropriate length wood screws (not included). Make sure the strips line up to the keyhole slots of the range hood.

SECTION 3

Prepare the Hood for Installation

1. Choose the type of ducting you will require. This model is equipped to vent either Vertically or Horizontally through a 3-1/4" x 10" duct. It can be modified to be ductless (re-circulates the air back into the kitchen) with the addition of 2 models CF-01 Charcoal Filters (not included) **(Figure 3).**

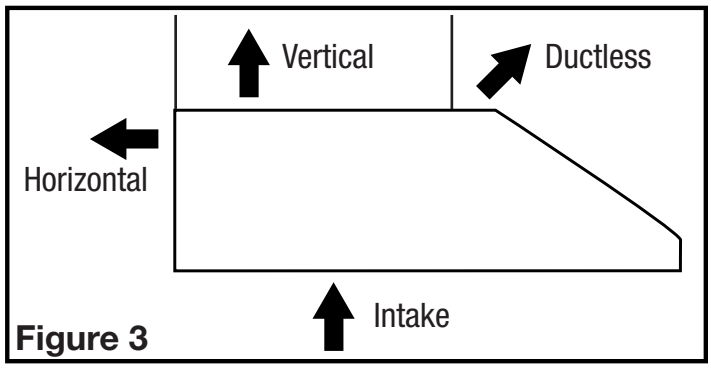

Figure 3

2a. **Horizontal or Vertical** - Remove the apprpriate square knockout by inserting a screw driver under the edge and break the tabs holding it in place. Peel back with pliers **(Figure 4).**

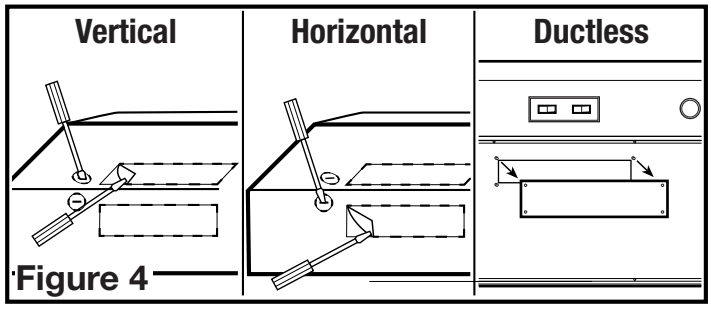

Figure 4

2b. **Ductless** - Using a 3/8" nut driver or ratchet, remove & discard the 4 nuts holding the ductless block-off plate. This will expose the grill vents on top of the hood **(Figure 4).**

3. Determine where the electrical service will enter the hood and remove the appropriate electrical knockout by inserting a screw driver into the slot and rocking back and forth until the knockout comes loose **(Figure 4).**
4. Once the proper knockout(s) have been removed, hold the hood up to the installation location and mark the locations of the ducting, electrical, and mounting holes or mark the locations by measurement.
5. Cut appropriate holes for ducting connection and electrical connection in the wall/cabinet.
6. For 3-1/4" x 10" vertical or horizontal ducting, install the damper assembly to the hood by sliding the tabbed section of the damper under the hood body and securing with the two provided screws **(Figure 5).**

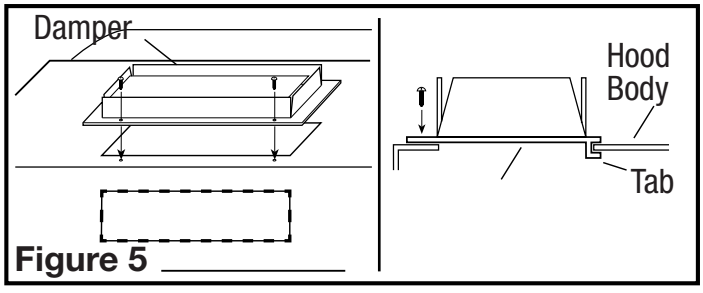

Figure 5

7. Install an approved wire connector to the electrical knockout of the hood and guide the electrical cable through the hood, allowing at least 6" of wire for connections and tighten.

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SECTION 4

Blower Installation for Ducted Range Hoods

NOTE: When reinstalling the blower, ensure that the blower is facing the same way as how you have chosen to duct it.

NOTE: Makes sure to support the blower in position by hand until it is firmly secured to the hood.

NOTE: FOR DUCTLESS INSTALLATIONS ONLY, if you did not already do so in the earlier steps, remove the vent block-off plate from under the top of the hood **(Figure 4).**

1. With the opening of the blower facing the direction you have chosen to duct the hood, place the blower mounting brackets (brackets on either side of the blower) over the blower mounting studs on the interior of the hood **(Figure 6).**
2. Using the 4 nuts removed earlier, secure the blower in place. Start the nuts by hand first, then tighten with a 3/8" nut driver or ratchet until they are fully seated **(Figure 6).**
3. Plug the blower connector into the port on the front wall of the blower compartment. It will fit only one way **(Figure 7).**

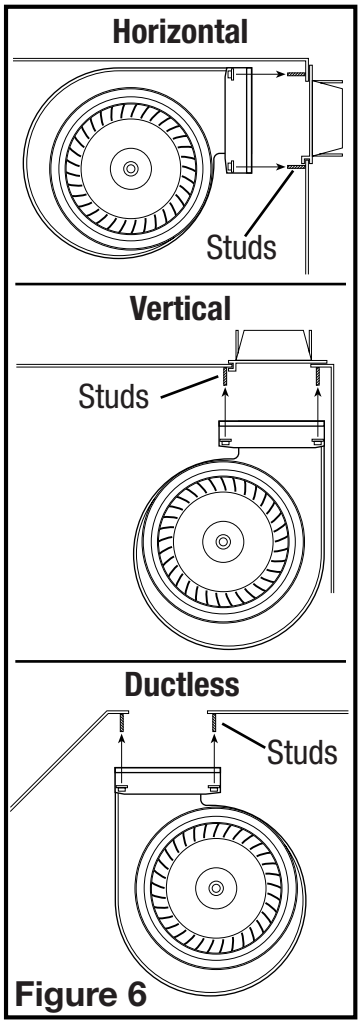

Figure 6

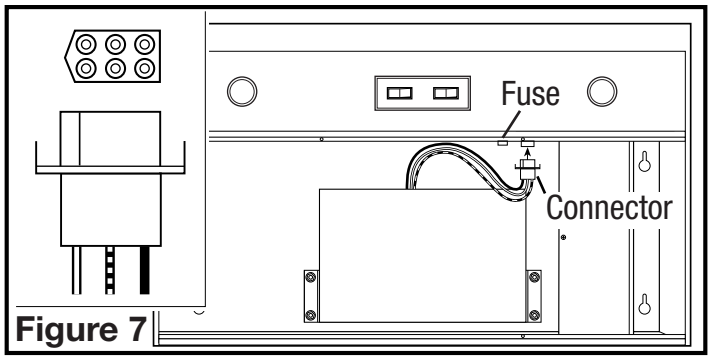

Figure 7

SECTION 5

Installing the Range Hood

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

NOTE: If installing into existing construction and you will not have access to the ductwork once the hood is in place, make ducting connections at this point. Refer to the Ducting Section for instructions.

1. Install the 4 mounting screws at the previously marked locations. Leave approximately 1/8" clearance. Slide the hood in place through the keyhole slots and align the front of the hood so that it is flush with the front of the cabinets. Tighten all screws securely **(Figure 8).**

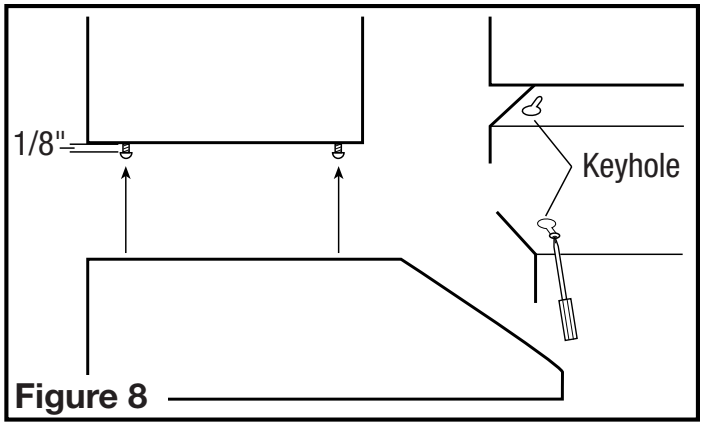

Figure 8

SECTION 6

Wiring

CAUTION: ALL ELECTRICAL CONNECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, OR NATIONAL ELECTRICAL CODE. IF YOU ARE UNFAMILIAR WITH METHODS OF INSTALLING ELECTRICAL WIRING, SECURE THE SERVICES OF A QUALIFIED ELECTRICIAN.

1. Connect the loose White wire from the range hood to the White wire from the supply, and the loose Black wire from the range hood to the Black wire of the supply. Connect the ground wire (green or bare) from the supply to the green wire from the hood. Use approved methods for all connections **(Figure 9).**

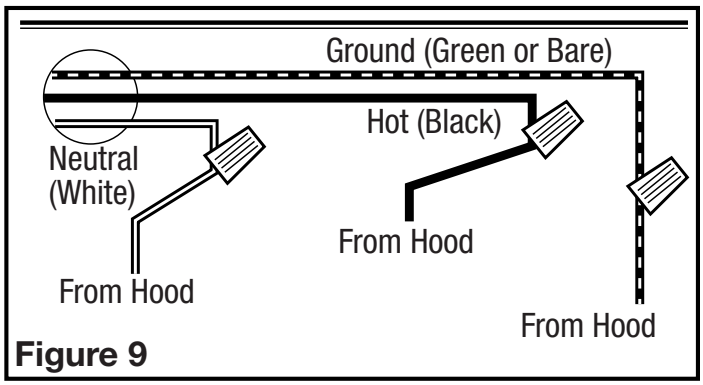

Figure 9

2. Install the wire compartment cover by reversing the instructions is **Section 1**, *Step 3*. Make sure all wiring is securely contained within the wire compartment and the nut is fully tightened.

SECTION 7

Ducting

CAUTION: ALL DUCTING MUST COMPLY WITH LOCAL AND NATIONAL BUILDING CODES.

WARNING: TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.

1. Connect the ducting to the hood's duct collar and damper. Secure in place using tape to seal all joints **(Figure 10).**

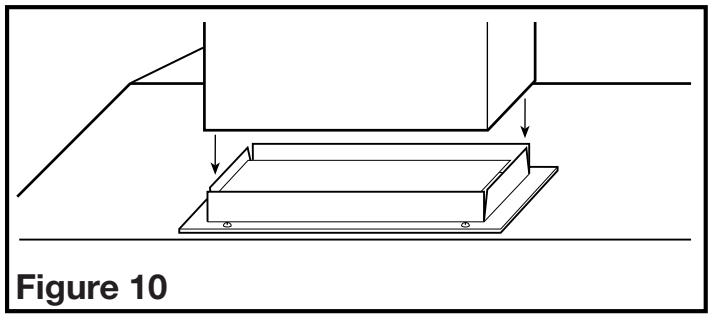
Figure 10

CAUTION: ALWAYS DUCT THE FAN TO THE OUTSIDE THROUGH A WALL OR ROOF CAP.

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SECTION 8

Finishing the Installation

1. Reinstall the bottom cover removed in Section 1 using the 4 screws to secure it in place.
2. Reinstall the filters by fitting them into the channel on either side of the hood and pushing upwards on them until they are secured in place **(Figure 11).**

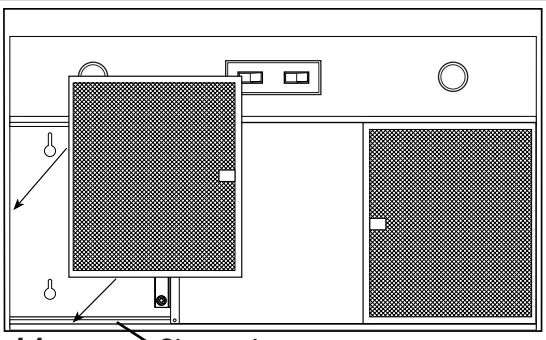

Figure 11

3. Install PAR16 medium base 45W maximum Halogen lamps (not included).
4. Turn switches to the "OFF" position and restore power. Test that the light and the fan are operating properly.
5. If there is any vibration noise, check for the source and try to tighten fasteners or adjust the tape to make a tighter connection or seal.

SECTION 9

Controls

Your Range Hood is equipped with two rocker style switches with one controlling the lighting and the other controlling the exhaust fan. The light switch has two positions, On (●) and OFF (O). The fan switch has three positions, High (●●), Low (●), and OFF (O).

SECTION 10

Maintenance

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE SERVICING THE UNIT.

Filters

1. **Grease Filter** - Included with your range hood are aluminum grease filters that should be washed at least once a month. The filters are dishwasher safe and should be washed in a mild soap or detergent. Reverse the instructions in the "Finishing the Installation" section of the instructions to remove filters. If the grease filters become damaged, replace with Air King Model GF-01 Grease Filters.

Changing the Lamp

1. Unscrew the lamp by turning in a counter-clockwise direction and remove from the socket. Replace with a PAR16 medium base 45W maximum Halogen lamp. Installation is the reverse of removal.

Fuse

1. To replace the fuse, turn the fuse cap located next to the wire connector counter clockwise and pull out. Replace with only a 125-Volt fuse, 3 Amp Max. Reinstall the fuse back into the hood **(Figure 7).**

Cleaning

CAUTION: DO NOT USE GASOLINE, BENZINE, THINNER, HARSH CLEANSERS, ETC., AS THEY MAY DAMAGE THE RANGE HOOD.

1. Clean your range hood with a mild detergent, such as dishwashing liquid, and dry with a soft cloth. **NEVER USE ANY ABRASIVE PADS OR SCOURING POWDERS**. Completely dry before restoring power. **NEVER IMMERSE ELECTRICAL PARTS IN WATER.**
2. The fan assembly can be vacuumed when build up (dirt, lint, etc.) accumulates over time. The fan is permanently lubricated and does not require oiling.

Troubleshooting Guide

Trouble	Probable Cause	Suggested Remedy
1. Hood does not operate when the switch is on.	1a. A fuse may be blown or a circuit tripped. 1b. Wiring is not connected properly.	1a. Replace fuse or reset circuit breaker. 1b. Turn off power to unit. Check that all wires are connected.
2. Hood is operating, but air moves slower than normal.	2. Obstruction in the exhaust ducting.	2. Check for any obstructions in the ducting including filter.
3. Hood is making a rattling noise.	3a. Filters are loose. 3b. Duct connection is loose.	3a. Turn off power to unit. Check that all filter are securely in place. 3b. Turn off power to unit. Check that duct connection is tight.

Installer:_____ Installation Date:_____

Place of Purchase:_____ Model Number:_____

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LIMITED WARRANTY

WHAT THIS WARRANTY COVERS: This product is warranted against defects in workmanship and/or materials.
HOW LONG THIS WARRANTY LASTS: This warranty extends only to the original purchaser of the product and lasts for one (1) year from the date of original purchase or until the original purchaser of the product sells or transfers the product, whichever first occurs.
WHAT AIR KING WILL DO: During the warranty period, Air King will, at its sole option, repair or replace any part or parts that prove to be defective or replace the whole product with the same or comparable model.
WHAT THIS WARRANTY DOES NOT COVER: This warranty does not apply if the product was damaged or failed because of accident, improper handling or operation, shipping damage, abuse, misuse, unauthorized repairs made or attempted. This warranty does not cover shipping costs for the return of products to Air King for repair or replacement. Air King will pay return shipping charges from Air King following warranty repairs or replacement
ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY), LAST ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE OR UNTIL THE ORIGINAL PURCHASER OF THE PRODUCT SELLS OR TRANSFERS THE PRODUCT, WHICHEVER FIRST OCCURS AND IN NO EVENT SHALL AIR KING'S LIABILITY UNDER ANY EXPRESS OR IMPLIED WARRANTY INCLUDE (I) INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER, OR (II) REPLACMENT OR REPAIR OF ANY HOUSE FUSES, CIRCUIT BREAKERS OR RECEPTACLES. NOTWITHSTANDING ANYTHING TO THE CONTRARY, IN NO EVENT SHALL AIR KING'S LIABILITY UNDER ANY EXPRESS OR IMPLIED WARRANTY EXCEED THE PURCHASE PRICE OF THE PRODUCT AND ANY SUCH LIABILITY SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIOD.
Some states and provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state and province to province. Proof of purchase is required before a warranty claim will be accepted.

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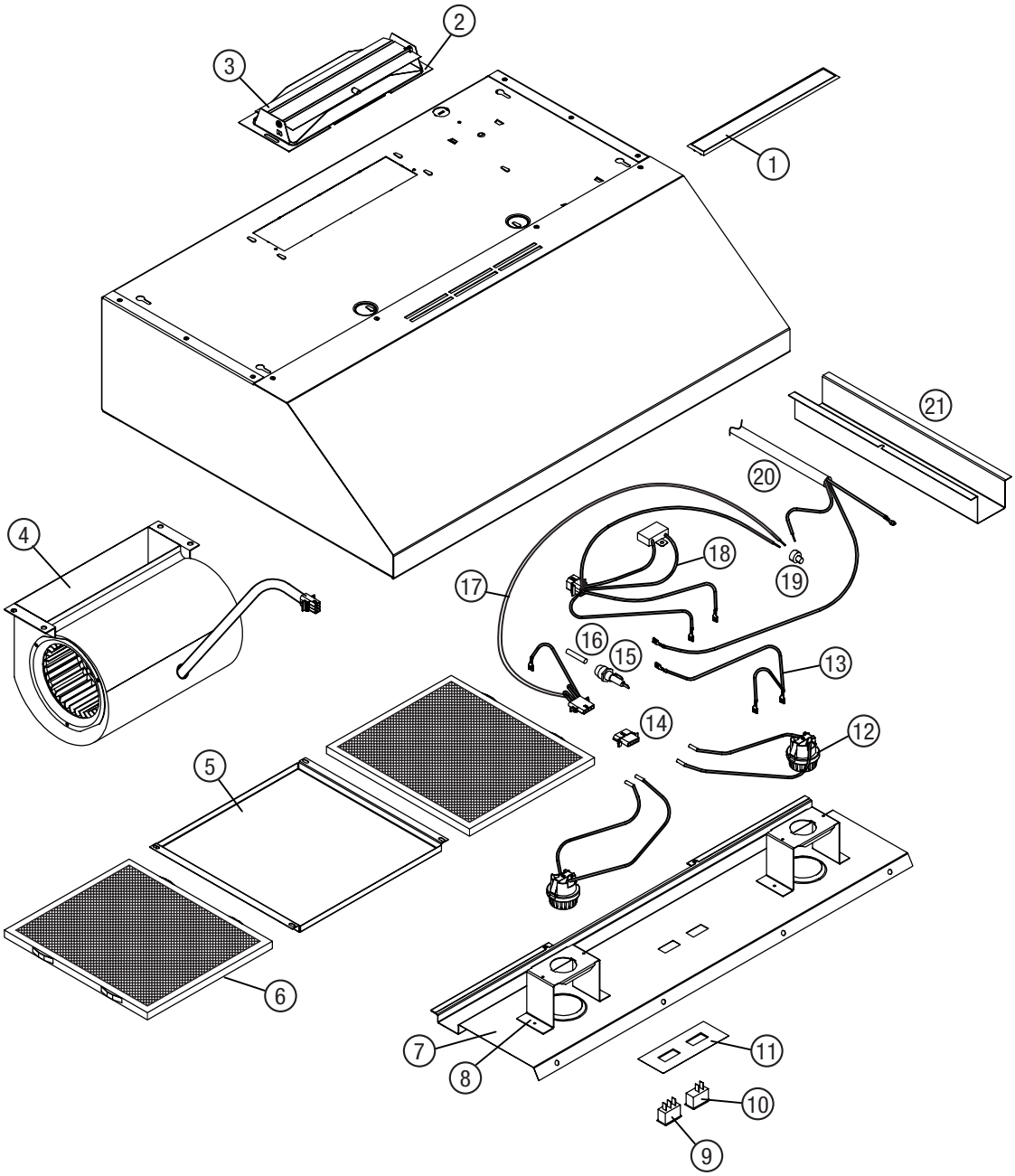
CUSTOMER SERVICE:

REPLACEMENT PARTS DIAGRAM



#	Qty.	Description	Replacement Part #
1	1	Louver Plate	5S1429006
2	1	Damper Frame	5S1999013
3	1	Damper	5S1999014
4	1	Blower	5S2144001
5	1	Bottom Cover	5S1111032
6	2	Grease Filter	5S1111033
7	1	Front Panel	5S1145032
8	1	Lamp Bracket	5S1136099
9	1	Fan Switch	5S1418006
10	1	Light Switch	5S1136069
11	1	Name Plate	5S1421006

#	Qty.	Description	Replacement Part #
12	2	Lamp Holder	5S1145051
13	1	Fuse Outlet Harness	5S1145052
14	1	Lamp Holder Connector	5S1145053
15	1	Fuse Holder	5S1199025
16	1	Fuse	5S1111054
17	1	Light Harness	5S1145055
18	1	Cap Harness	5S1145056
19	1	Crimp Nut	5S1145057
20	1	Main Harness	5S1137049
21	1	Wire Cover	5S1145061

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